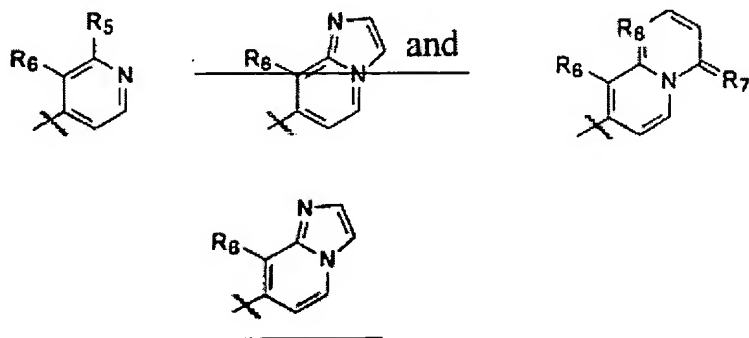


Amendments to the Specification:

On page 3, line 19, please amend the paragraph to read as follows:

"The present invention provides methods for labeling structures, including .beta.-amyloid plaques and neurofibrillary tangles, in vivo and in vitro, and comprises contacting a compound of formula (I):

with mammalian tissue. In formula (I), R₁ is selected from the group consisting of --C(O)-alkyl, -C(O)-alkylenyl-R₄, --C(O)O-alkyl, --C(O)O-alkylenyl R₄, --C=C(CN).sub.2-alkyl, --C=C(CN)₂-alkylenyl-R₄,



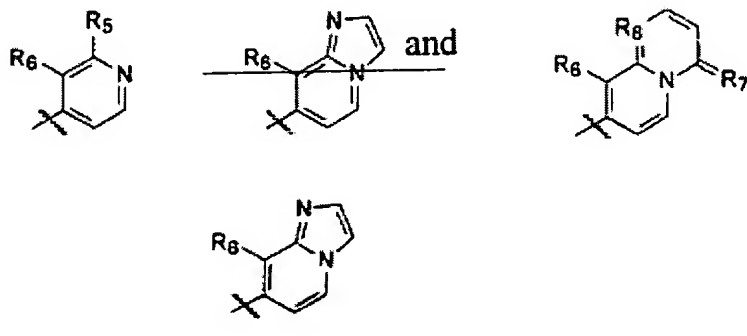
R₄ is a radical selected from the group consisting of alkyl, substituted alkyl, aryl and substituted aryl; R₅ is a radical selected from the group consisting of --NH₂, --OH, --SH, --NH-alkyl, --NHR₄, --NH-alkylenyl-R₄, --O-alkyl, --O-alkylenyl-R₄, --S-alkyl, and --S-alkylenyl-R₄; R₆ is a radical selected from the group consisting of --CN, --COOH, --C(O)O-alkyl, --C(O)O-alkylenyl-R₄, --C(O)-alkyl, --C(O)-alkylenyl-R₄, --C(O)-halogen, --C(O)NH₂, --C(O)NH-alkyl, --C(O)NH-alkylenyl-R₄; R₇ is a radical selected from the group consisting of O, NH, and S; and ~~R₈ is N, O or S. R₈ is N.~~

On page 4, line 18, please amend the paragraph to read as follows:

" In still another embodiment, the invention is directed to a composition comprising a compound of formula (I):

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R₁ is selected from the group consisting of --C(O)-alkyl, --C(O)-alkylenyl-R₄, --C(O)O-alkyl, --C(O)O-alkylenyl-R₄, --C≡C(CN).sub.2-alkyl, --C≡C(CN)₂-alkylenyl-R₄,



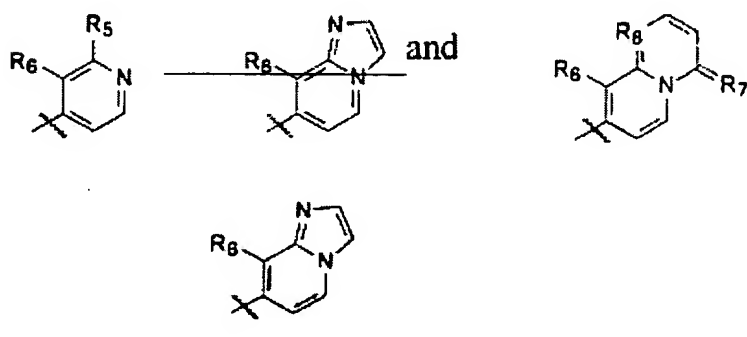
R₄ is a radical selected from the group consisting of alkyl, substituted alkyl, aryl and substituted aryl; R₅ is a radical selected from the group consisting of --NH₂, --OH, --SH, --NH-alkyl, --NHR₄, --NH-alkylenyl-R₄, --O-alkyl, --O-alkylenyl-R₄, --S-alkyl, and --S-alkylenyl-R₄; R₆ is a radical selected from the group consisting of --CN, --COOH, --C(O)O-alkyl, --C(O)O-alkylenyl-R₄, --C(O)-alkyl, --C(O)-alkylenyl-R₄, --C(O)-halogen, --C(O)NH₂, --C(O)NH-alkyl, --C(O)NH-alkylenyl-R₄; R₇ is a radical selected from the group consisting of O, NH, and S; ~~R₈ is N, O or S;~~ R₈ is N; R₂ is selected from the group consisting of alkyl and alkylenyl-R₅ and R₃ is alkylenyl-R₅, and R₅ is selected from the group consisting of --OH, --OTs, halogen, spiperone, spiperone ketal, and spiperone-3-yl, or R₂ and R₃ together form a heterocyclic ring, optionally substituted with at least one radical selected from the group consisting of alkyl, alkoxy, OH, OTs, halogen, alkylenyl-R₅, carbonyl, spiperone, spiperone ketal and spiperone-3-yl. One or more of the hydrogen, halogen or carbon atoms can optionally be replaced with a radiolabel.

On page 7, line 16, please replace the second pictured chemical structure with the following corrected chemical structure:

On page 8, line 10, please amend the paragraph to read as follows:

"The present invention is directed to methods for labeling structures such as β -amyloid plaques and neurofibrillary tangles in vivo and in vitro. The methods all involve contacting a compound of formula (I):

with mammalian tissue. In formula (I), R_1 is selected from the group consisting of $--C(O)-alkyl$, $--C(O)-alkylenyl-R_4$, $--C(O)O-alkyl$, $--C(O)O-alkylenyl-R_4$, $--C=C(CN)_2-alkyl$, $--C=C(CN)_2-alkylenyl-R_4$,



R_4 is a radical selected from the group consisting of alkyl, substituted alkyl, aryl and substituted aryl. R_5 is a radical selected from the group consisting of $--NH_2$, $--OH$, $--SH$, $--NH-alkyl$, $--NHR_4$, $--NH-alkylenyl-R_4$, $--O-alkyl$, $--O-alkylenyl-R_4$, $--S-alkyl$, and $--S-alkylenyl-R_4$. $R_{sub.6}$ is a radical selected from the group consisting of $--CN$, $--COOH$, $--C(O)O-alkyl$, $--C(O)O-alkylenyl-R_4$, $--C(O)-alkyl$, $--C(O)-alkylenyl-R_4$, $--C(O)-halogen$, $--C(O)NH_2$, $--C(O)NH-alkyl$, $--C(O)NH-alkylenyl-R_4$. R_7 is a radical selected from the group consisting of O, NH, and S. ~~R_8 is N, O or S.~~ R_8 is N.